

Issuance Date: March 1, 2005
Effective Date: April 1, 2005
Expiration Date: February 28, 2010

STATE WASTE DISCHARGE PERMIT NUMBER ST-8063

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Spokane, Washington 99205

In compliance with the provisions of the
State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington, as amended,
authorizes

Port of Moses Lake
7810 Andrews St. NE
Moses Lake, WA 98837

<u>Plant Location:</u> ½ miles south of Road 10 on west edge of Grant County International Airport Property	<u>Discharge Location:</u> Legal Description : 102 acres within the SW¼ of Section 17, Township 20 N., Range 28 E., and the NW¼ of Section 20, Township 20 N., Range 28 E., Grant County
<u>Treatment Type</u> Land Application	Latitude: 47° 11' 30" N Longitude: 119° 15' 30" W

to discharge wastewater in accordance with the special and general conditions which follow.

James M. Bellatty
Water Quality Section Manager
Eastern Regional Office

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Monthly	May 15, 2005
S5.G.	Operations and Maintenance Manual Update	As Necessary	
S6.	Spill Plan Update	As Necessary	
S7.	Irrigation and Crop Management Plan	1/year	March 15, 2006
G8.	Application for permit renewal	1/permit cycle	September 30, 2009

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to apply wastewater to land via spray irrigation on the following designated irrigation lands:

Approximately 102 acres located within the SW¹/₄ of Section 17, T. 20N, R.28E., W.M. and the NW¹/₄ of Section 20, T. 20N, R. 28 E.,W.M., Grant County.

Total nitrogen, water and other constituents applied to the irrigation lands shall not exceed the crop requirements as determined by the Permittee's Irrigation and Crop Management Plan, Condition S7.

The loading of TDS to the irrigation lands shall not exceed an annual total of 6,500 lbs/acre/season. The Permittee is authorized to apply wastewater to the irrigation lands during the time period from March 1 to October 31. Discharges shall be subject to the following limitations:

Parameter	EFFLUENT LIMITATIONS		
	Average Monthly ^a	Maximum Daily ^b	Irrigation Season Average ^c
Flow, gpd ^d	300,000	600,000	-
pH, s.u.	Within the range 5.0 to 9.0		
Boron, mg/L	-	-	1.0
Sodium Adsorption Ratio ^e	-	-	10
^a The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.			
^b The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day.			
^c The irrigation season average effluent limitation is defined as the highest allowable average of daily discharges over an irrigation season, calculated as the sum of all daily discharges measured during an irrigation season divided by the number of daily discharges measured during that irrigation season.			

^dThis flow limitation applies to influent flow to the storage lagoons as measured at the Randolph Road lift station.

^eThe Sodium Adsorption Ratio (SAR) shall be calculated by the following equation:

$$SAR = \frac{Na_{meq/L}}{\sqrt{(Ca_{meq/L} + Mg_{meq/L})/2}}$$

Where concentrations of sodium (Na), calcium (Ca), and Magnesium (Mg) are expressed in meq/L. Concentrations in meq/L can be calculated from concentrations in mg/L as follows:

$$Na_{meq/L} = \frac{Na_{mg/L}}{23} ; Ca_{meq/L} = \frac{Ca_{mg/L}}{20.04} ; Mg_{meq/L} = \frac{Mg_{mg/L}}{12.15}$$

S2. MONITORING REQUIREMENTS

A. Wastewater Monitoring

The Permittee shall monitor the process wastewater applied to the irrigation fields according to the following schedule:

Parameter ¹	Units	Sample Point	Sampling Frequency ¹	Sample Type
Flow	gpd	Process Water Irrigation Pump Station	Daily	Meter
Temperature	°F	“	Once/Month	Field Test
Conductivity	µmhos/cm	“	“	“
pH	Standard Units	“	“	“
Oil & Grease	mg/l	“	“	Grab
Total Dissolved Solids	mg/l	“	“	“
SAR	-	“	“	Calculated
TSS	mg/l	“	“	Grab
TKN (as N)	mg/l	“	“	“
NO ₃ (as N)	mg/l	“	“	“
NH ₃ (as N)	mg/l	“	“	“
Total-P (as P)	mg/l	“	“	“
Boron	mg/l	“	“	“
Bicarbonate	mg/l	“	“	“
Carbonate	mg/l	“	“	“
Chloride	mg/l	“	“	“

Parameter ¹	Units	Sample Point	Sampling Frequency ¹	Sample Type
Fluoride	mg/l	“	“	“
Sulfate	mg/l	“	“	“
Calcium	mg/l	“	“	“
Magnesium	mg/l	“	“	“
Potassium	mg/l	“	“	“
Sodium	mg/l	“	“	“
Manganese	mg/l	“	“	“
Strontium	mg/l	“	once/year	“
¹ Monitoring is only required during the months when process wastewater is irrigated. The Permittee may request the Department’s review of the sampling parameters and frequencies. If determined appropriate, the Department may adjust this sampling schedule by permit modification.				

B. Fresh Water Irrigation Monitoring

The Permittee shall monitor the supplemental fresh water applied to the irrigation fields according to the following schedule:

Parameter ¹	Units	Sample Point	Sampling Frequency ¹	Sample Type
Flow	gpd	Fresh Water Irrigation Pump Station	Continuous	Meter
Temperature	°F	“	1/quarter ¹	Grab, Field Test
Conductivity	µmhos/cm	“	“	“
pH	Standard Units	“	“	“
SAR	-	“	1/year ²	Calculated
TDS	mg/l	“	“	Grab
TKN (as N)	mg/l	“	“	“
NO ₃ (as N)	mg/l	“	“	“
NH ₃ (as N)	mg/l	“	“	“
Total-P (as P)	mg/l	“	“	“
Bicarbonate	mg/l	“	“	“
Carbonate	mg/l	“	“	“
Chloride	mg/l	“	“	“

Parameter¹	Units	Sample Point	Sampling Frequency¹	Sample Type
Fluoride	mg/l	“	“	“
Sulfate	mg/l	“	“	“
Calcium	mg/l	“	“	“
Magnesium	mg/l	“	“	“
Potassium	mg/l	“	“	“
Sodium	mg/l	“	“	“
Manganese	mg/l	“	“	“
¹ Quarters are defined as follows: 1 st quarter – January to March; 2 nd quarter – April to June; 3 rd quarter – July to September ; 4 th quarter – October to December				
² Monitoring is only required during months of irrigation. The Permittee may request the Department’s review of the sampling parameters and frequencies. If determined appropriate, the Department may adjust this sampling schedule by permit modification.				

C. Ground Water Monitoring

The sampling points for ground water will be monitoring wells LA-MW1, LA-MW2, LA-MW3, MW-3, and MW-4

The Permittee shall monitor the ground water according to the following schedule:

Parameter¹	Units	Monitoring Well	Sampling Frequency¹	Sample Type
Water Level	Feet to msl ²	LA-MW1, LA-MW2, LA-MW3, MW3, MW4	1/quarter ³	Measurement
pH	Standard Units	LA-MW1, LA-MW2, LA-MW3, MW3	"	Grab, Field Test
Conductivity	µmho/cm	"	"	"
Temperature	°C	"	"	"
Total Dissolved Solids	mg/l	"	"	Grab
Bicarbonate	“	“	“	“
Carbonate	“	“	“	“
Chloride	“	“	“	“
Fluoride	“	“	“	“
Sulfate	“	“	“	“
NO ₃ (as N)	“	“	“	“

Parameter ¹	Units	Monitoring Well	Sampling Frequency ¹	Sample Type
TKN (as N)	“	“	“	“
Calcium	“	“	“	“
Magnesium	“	“	“	“
Potassium	“	“	“	“
Sodium	“	“	“	“
Manganese	“	“	“	“
¹ The Permittee may request the Department’s review of the sampling parameters and frequencies. If determined appropriate, the Department may adjust this sampling schedule by permit modification.				
² All monitoring wells shall be tied to the same reference elevation point. Level measurements shall be to the nearest 0.01 foot.				
³ Quarters are defined as follows: 1 st quarter – January to March; 2 nd quarter – April to June; 3 rd quarter – July to September ; 4 th quarter – October to December				

D. Soil Monitoring

Semi-Annual Monitoring

The Permittee shall perform soil monitoring on the irrigation lands twice per year. These sampling sites shall be located so as to be representative of each irrigation site or as represented in the crop management plan. If possible, sampling sites shall remain in the same vicinity from year to year. Testing at each sampling site shall be done on one foot soil increments. Results shall be submitted annually with the annual Irrigation and Crop Management Plan.

Composite samples will be for four depths [0-9"; 9-22"; 22-36"; 36-48" (or until auger refusal)] and will be from a minimum of four (4) cores. Samples will be collected at a time that best represents soil conditions at the beginning and end of the crop growing season.

The Permittee shall monitor the soils in the center pivot sprayfields according to the following schedule:

Parameter	Units	Sample Point	Depth Increments ¹
Exchangeable sodium percentage	%	Each center pivot sprayfield	1,2,3,4
Cation exchange capacity ²	meq/100g	"	"
Organic matter ³	%	"	"
Moisture content	%	"	"
TKN (as N) ³	mg/Kg	"	"
NO ₃ (as N)	mg/Kg	"	"
NH ₃ (as N)	mg/Kg	"	"
Total-P (as P) ³	mg/Kg	"	"

Parameter	Units	Sample Point	Depth Increments ¹
Conductivity	mmhos/cm	"	"
Sodium	meq/100g	"	"
Calcium	meq/100g	"	"
Magnesium	meq/100g	"	"
Potassium	mg/Kg	"	"
Sulfate (as S)	mg/Kg	"	"
pH	s.u.	"	"
¹ Depth (inches) vs. Depth increment (ft.) for composite samples: 0 –9 inches 1 foot 9-22 inches 2 feet 22-36 inches 3 feet 36-48 inches 4 feet			
² Testing for Cation Exchange Capacity may be conducted once per permit cycle.			
³ Testing for these parameters may be conducted once per year, at the end of the crop growing season.			

E. Crop Monitoring

The Permittee shall perform crop monitoring on each field once per harvest. Composite samples will be comprised of at least ten (10) random samples collected from each center-pivot field.

Parameter	Units
Crop production ¹	Dry tons/ac
Moisture content	%
Crude protein	%
Total Kjeldahl Nitrogen	%
Ash	%
NO ₃ (as N)	mg/Kg (dry wt)
Total-P (as P)	%
Sodium	mg/Kg (dry wt)
Magnesium	"
Potassium	"
Calcium	"
Sulfur	"
Chloride	"
¹ Crop production may be calculated on an annual basis by using an average annual bale weight and the annual bale count.	

F. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Ground water sampling shall conform to the latest protocols in the *Implementation Guidance for the Ground Water Quality Standards*, (Ecology 1996).

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

All soil analysis and reporting will be in accordance with *Laboratory Procedures*, Soil Testing Laboratory, Washington State University, November 1981.

G. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

H. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. Conductivity and pH shall be accredited if the laboratory must otherwise be registered or accredited. Crops, soils, and hazardous waste testing has not been included in the accreditation program. Crops, soils, and hazardous waste data shall be provided by a lab accredited for similar parameters in water media.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during the previous month shall be summarized and reported on a form provided, or otherwise approved, by the Department, and be received no later than the 15th day of the month following the completed reporting period, unless otherwise specified in this permit. Priority pollutant analysis data shall be submitted no later than 45 days following the reporting period. The report(s) shall be sent to the Department of Ecology, Permit Coordinator, Eastern Regional Office, N. 4601 Monroe, Suite 202, Spokane, WA 99207-1295.

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of three years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2. of this permit, then the results of this monitoring shall be included in calculation and reporting of the data submitted in the Permittee's self-monitoring reports.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the permit terms and conditions due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;

2. Repeat sampling and analysis of any violation and submit the results to the Department within 30 days after becoming aware of the violation;
3. Immediately notify the Department of the failure to comply; and
4. Submit a detailed written report to the Department within thirty days, unless requested earlier by the Department, describing the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of the resampling, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

S4. OPERATION AND MAINTENANCE

The Permittee shall at all times be responsible for the proper operation and maintenance of any facilities or systems of control installed to achieve compliance with the terms and conditions of the permit.

A. O & M Program

The Permittee shall institute an adequate operation and maintenance program for their entire industrial wastewater system. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, as well as the collection system and pumping stations. Such records shall clearly specify the frequency and type of maintenance recommended by the manufacturer and shall show the frequency and type of maintenance performed. These maintenance records shall be available for inspection at all times.

B. Short-term Reduction

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limitations on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee shall give written notification to the Department, if possible, 30 days prior to such activities, detailing the reasons for, length of time of, and the potential effects of the reduced level of treatment. This notification does not relieve the Permittee of their obligations under this permit.

C. Electrical Power Failure

The Permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or lift stations either by means of alternate power sources, standby generator, or retention of inadequately treated wastes.

D. Bypass Procedures

The Permittee shall immediately notify the Department of any spill, overflow, or bypass from any portion of the collection or treatment system.

The bypass of wastes from any portion of the collection or treatment system is prohibited unless one of the following conditions (1, 2, or 3) applies:

1. Unavoidable Bypass -- Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

If the resulting bypass from any portion of the treatment system results in noncompliance with this permit the Permittee shall notify the Department in accordance with condition S3.E "Noncompliance Notification."

2. Anticipated Bypass That Has The Potential to Violate Permit Limits or Conditions -- Bypass is authorized by an administrative order issued by the Department. The Permittee shall notify the Department at least 30 days before the planned date of bypass. The notice shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Department will consider the following prior to issuing an administrative order:
 - a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of the permit.
 - b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
 - c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, the Department will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass may be by administrative order issued by the Department under RCW 90.48.120.

3. Bypass For Essential Maintenance Without the Potential to Cause Violation of Permit Limits or Conditions -- Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of the permit, or adversely impact public health as determined by the Department prior to the bypass.

E. Operations and Maintenance Manual

The O&M Manual shall be reviewed by the Permittee at least annually. All manual changes or updates shall be submitted to the Department whenever they are incorporated into the manual. The approved operation and maintenance manual shall be kept available at the treatment plant.

The operation and maintenance manual shall contain the treatment plant process control monitoring schedule. All operators shall follow the instructions and procedures of this manual.

The manual shall include:

1. Irrigation system operational controls and procedures;
2. Protocols and procedures for ground water monitoring network sampling and testing;
3. Protocols and procedures for soil sampling and testing.
4. Protocols and procedures for pan lysimeter sampling and testing, including the testing parameters and frequencies.

F. Irrigation Land Application

1. There shall be no runoff of wastewater applied to land by spray irrigation to any surface waters of the state or to any land not owned by or under control of the Permittee.
2. The Permittee shall use recognized good practices, and all available and reasonable procedures to control odors from the land application system. When notified by the Department, the Permittee shall implement measures to reduce odors to a reasonable minimum.
3. The wastewater shall not be applied to the irrigation lands in quantities that:
 - a. Significantly reduce or destroy the long-term infiltration rate of the soil.
 - b. Cause long-term anaerobic conditions in the soil.
 - c. Cause ponding of wastewater and produce objectionable odors or support insects or vectors.
 - d. Cause leaching losses of constituents of concern beyond the treatment zone or in excess of the approved design. Constituents of concern are constituents in the wastewater, partial decomposition products, or soil constituents that would alter ground water quality in amounts that would affect current and future beneficial uses.

4. The Permittee shall maintain all irrigation agreements for lands not owned for the duration of the permit cycle. Any reduction in irrigation lands by termination of any irrigation agreements may result in permit modification or revocation. The Permittee shall immediately inform the Department in writing of any proposed changes to existing agreements.

S5. PRETREATMENT

The Permittee shall work cooperatively with the Department to ensure that all commercial and industrial users of the wastewater treatment system are in compliance with pretreatment regulations.

A. Discharge Authorization Required

Significant commercial or industrial operations shall not be allowed to discharge wastes to the Permittee's industrial wastewater system until they have received prior authorization from the Department in accordance with Chapter 90.48 RCW and Chapter 173-216 WAC, as amended. The Permittee shall immediately notify the Department of any proposed new sources of wastewater from significant commercial or industrial operations.

B. Prohibitions

A discharger may not introduce into the Permittee's industrial wastewater system any pollutant(s) that cause pass through or interference.

The following discharges shall not be discharged into the Permittee's industrial wastewater system.

1. Pollutants that create a fire or explosion hazard in the wastewater facilities (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
2. Pollutants that will cause corrosive structural damage to the wastewater facilities, but in no case discharges with pH lower than 5.0 standard units or greater than 11.0 standard units, unless the works are specifically designed to accommodate such discharges.
3. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the wastewater facilities.
4. Any pollutant, including oxygen demanding pollutants, (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the wastewater facilities.
5. Heat in such quantities such that the temperature at the influent to the storage ponds exceeds 40°C (104°F) unless the Department, upon request of the Permittee, approves, in writing, alternate temperature limits.

6. Petroleum oil, non-biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the wastewater facilities in a quantity which may cause acute worker health and safety problems.
8. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
9. As provided by WAC 173-303-071(3)(a), discharges of dangerous wastes into the industrial wastewater system by industrial or commercial users are prohibited unless the discharger has submitted an application for a State Waste Discharge Permit. The applicant must accurately describe the wastewater on a State Waste Discharge Permit Application for Industrial Discharges to a POTW (Ecology Form 040-177).

C. Notification of Industrial User Violations

The Permittee shall notify the Department if any industrial user violates the prohibitions listed in S5.B above.

S6. SPILL PLAN

The Permittee shall review the plan at least annually and update the Spill Plan as needed. Changes to the plan shall be sent to the Department. The plan and any supplements shall be followed throughout the term of the permit.

The spill control plan shall include the following:

- A description of operator training to implement the plan.
- A description of the reporting system which will be used to alert responsible managers and legal authorities in the event of a spill.
- A description of preventive measures and facilities (including an overall facility plot showing drainage patterns) which prevent, contain, or treat spills of these materials.
- A list of any oil and petroleum products, materials, which when spilled, or otherwise released into the environment, are designated Dangerous (DW) or Extremely Hazardous Waste (EHW) by the procedures set forth in WAC 173-303-070, or other materials which may become pollutants or cause pollution upon reaching state's waters.
- Plans and manuals required by 40 CFR Part 112, contingency plans required by Chapter 173-303 WAC, or other plans required by other agencies which meet the intent of this section may be submitted.

S7. IRRIGATION AND CROP MANAGEMENT PLAN

An Irrigation and Crop Management Plan shall be submitted annually by March 15 for Department review. The plan shall generally conform with *Guidelines for Preparation of Engineering Reports for Industrial Wastewater Land Application Systems*, Ecology 1993.

The plan must be prepared by a soil scientist. The plan shall include the following elements:

A. Annual Summary of Farm Operations for Previous Year

This summary shall include:

1. For each crop grown, the total acreage and quantity harvested.
2. Calculated balances for nutrients, salts, TDS, or other design limiting parameters. The calculations shall include crop consumptive use, process wastewater loadings of nutrients, salts, TDS or other design limiting parameters, and contributions from commercial fertilizers applied.
3. Calculated water balance. The calculations shall include irrigation system efficiency and application uniformity, the quantity of supplemental irrigation water and process wastewater applied, crop consumptive use, water stored in the soil profile outside the normal growing season, and salt leaching requirements.
4. Soil and lysimeter testing results. A summary of the soil and lysimeter testing results shall be submitted and discussed as part of the annual Irrigation and Crop Management Plan. The summary shall also include all previous years' results and discuss any trends of the data.

B. Cropping Schedule for Upcoming Year

This schedule shall include:

1. Crop Management. The proposed acreage for each crop, cultivation and harvesting requirements, expected crop yields, and methods for establishing a crop, and proposed schedule for herbicide, pesticide, and fertilizer application.
2. Irrigation Management. The frequency and timing of wastewater and supplemental irrigation water application (including harvest and non-harvest periods), and recommended rest cycles for wastewater application where organic or hydraulic loading is a concern.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Department shall be signed as follows:

- A. All permit applications shall be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by the person described above and is submitted to the Department at the time of authorization, and
 - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

G2. RIGHT OF ENTRY

Representatives of the Department shall have the right to enter at all reasonable times in or upon any property, public or for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours; hours during which production, treatment, or discharge occurs; or times when the Department suspects a violation requiring immediate inspection. Representatives of the Department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least 60 days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. NOTIFICATION OF NEW OR ALTERED SOURCES

The Permittee shall submit written notice to the Department whenever any new discharge or increase in volume or change in character of an existing discharge into the sewer is proposed which: (1) would interfere with the operation of, or exceed the design capacity of, any portion of the collection or treatment system; (2) would increase the total system flow or influent waste loading by more than 10 percent; (3) is not part of an approved general sewer plan or approved plans and specifications; or would be subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act. This notice shall include an evaluation of the system's ability to adequately transport and treat the added flow and/or wasteload.

G6. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

G7. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G8. DUTY TO REAPPLY

The Permittee must apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

G9. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department. The Department may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G10. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.